## TRAINING G1000 C182T PILOTS

Although the G1000 offers much more than this, I focus on the following items I consider to be most important.

#### On The PFD:

- -Inset map setup with terrain always on, wind arrow in use
- -Wind Vectors choice
- -Nearest airports and how Direct Enter Enter works for what's shown
- -Transponder setup and use
- -121.5 Frequency shift button
- -Manual VOR/ILS frequency selection/ radial/course selection
- -Audio Panel operation/volume/squelch
- -Basic Autopilot operation, climb, descend, turn, navigate, reset, and knowing what it's doing, what it is armed to do, and where it is going
- -Cross Checking outside every time we look down
- -Cockpit Lighting

#### On the MFD:

- -MAP page 1 and 4 for Terrain, Nexrad, Winds Aloft, Cloud Tops, traffic, use range cursor to find altitude of GPS overlay under you (poor man's radio altimeter), also names of lake/rivers/Interstate highways
- -WPT page 1 for specific airport info, frequencies, wx and forecasts, autoloading frequencies
- -WPT page 5 to press softkey 'new' to mark a find and make a waypoint of it, and make waypoints for the four corners of a grid (S394NW Salt Lake sectional, grid 394, NW corner, adding Lat and Long)
- -Using Direct Enter Enter to go to any waypoint
- -NRST to find best FSS or Center Frequencies –autoload it, nearest VOR to autoload frequency
- -Set up a flight plan, note location of SAR program
- -Divert to another airport
- -Reset fuel used/loaded, use lean assist:

#### For Instrument Pilots, Add:

- -setting minimums and timers on the PFD
- -setting up a flight plan with DP, airways and STARS
- -changing, loading, and activating approaches
- -autopilot proficiency for all types of approaches including VNAV
- -monitoring FLT PLAN page to see 'how goes it'
- -Use direct button to go to a waypoint and hold in a certain direction, or go to NRST intersections, go direct and hold there in a certain direction

<u>Training should include a thorough review of the Emergency Checklists, often</u> well served setting in the hangar with ground power attached. Weight and Balance should also be reviewed as the G1000 aircraft are heavier than Legacy aircraft.

## G1000 FORM 5 CHECKRIDE C182T

This typical profile tries to touch on most all of the items thought important from the previous list using logical sequence in a minimal time period. I have the pilot plan a short field takeoff with a 50' obstacle, then follow a given VOR radial a certain distance before flying the flight plan (GPS direct between two airports with high terrain between). As they are doing the walk around, I scramble frequencies and set the transponder to 3001. I hope the pilot will do the following before even moving:

- -do a normal checklist and engine start
- -set up a GPS flight plan between two airports
- -set up the initial VOR frequency and radial
- -autoload necessary frequencies with volume and squelch adjustments
- -reset transponder and use TERRAIN on MAP page 1
- -Do the Taxi Checklist (as much as possible)

### Then,

- -let them taxi out, short field takeoff, follow the VOR radial and transition to the GPS flight plan, climb to altitude and lean out the engine, while cross checking outside.
- -here we can do the slow flight to do clearing turns, then the stall series, and 720s
- -then, autopilot ON to follow course and hold altitude
- -next divert to the nearest airport after checking its' weather
- -please find me the NRST FSS and Center frequency
- -Autopilot off and engine out practice
- -Return to base for 3 landings; no flap 80 knots on final, soft field (snow) 70 knots, and a short field landing, 65 knots, to a full stop. Demonstrate a stabilized approach on final during the last 200-300 feet.
- -Proper use of all checklists

## For Night Ops, Add;

- -TERRAIN always on the MAP MFD
- -Flashlight handy
- -IFR routes/altitudes ONLY
- -cockpit lighting, switch locations, strobe light/landing light ground etiquette
- -Pulse light vs landing light during the landing flare

# For Instrument Check, Add after the Engine Out Practice;

- -Partial panel Unusual Attitude recovery –( I black out the PFD)
- -go direct to nearby waypoint or intersection and enter hold
- -1 local approach using correct setup selection, minimums set, good briefing, and FLT PLN page open for how goes it, all to a normal no flap landing at minimums

### For Cadet Orientation or AFROTC check add;

- -during the stall series, have the pilot talk you through them as if you were a cadet
- -during the pre-flight, have the pilot demonstrate workable knowledge of 52-7